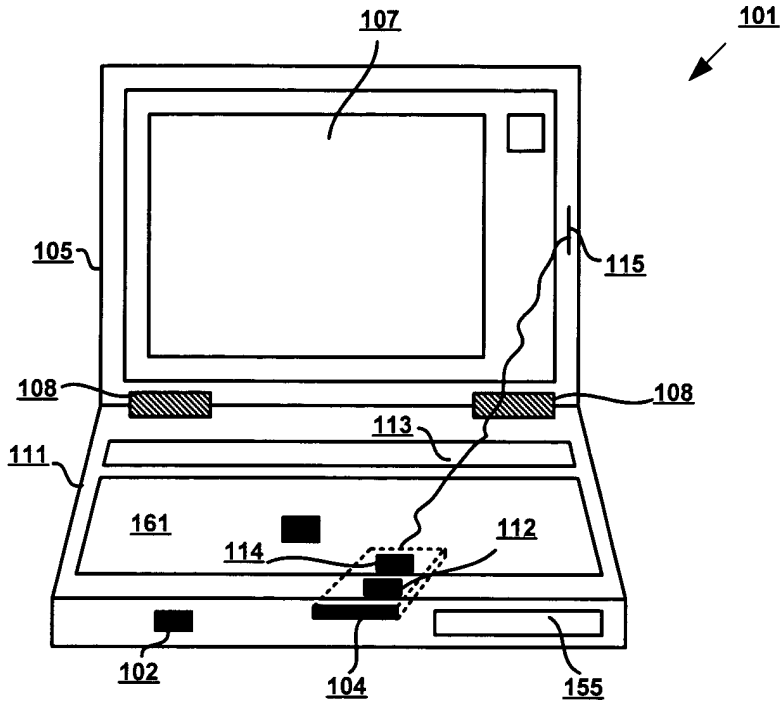

FIGURE 1A

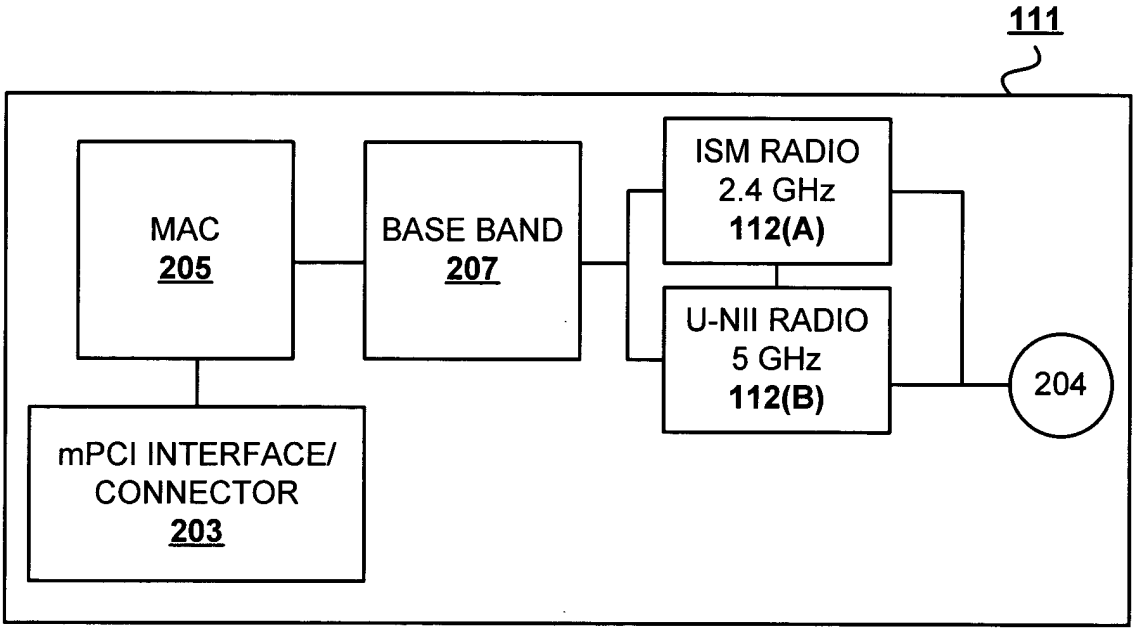

FIGURE 2

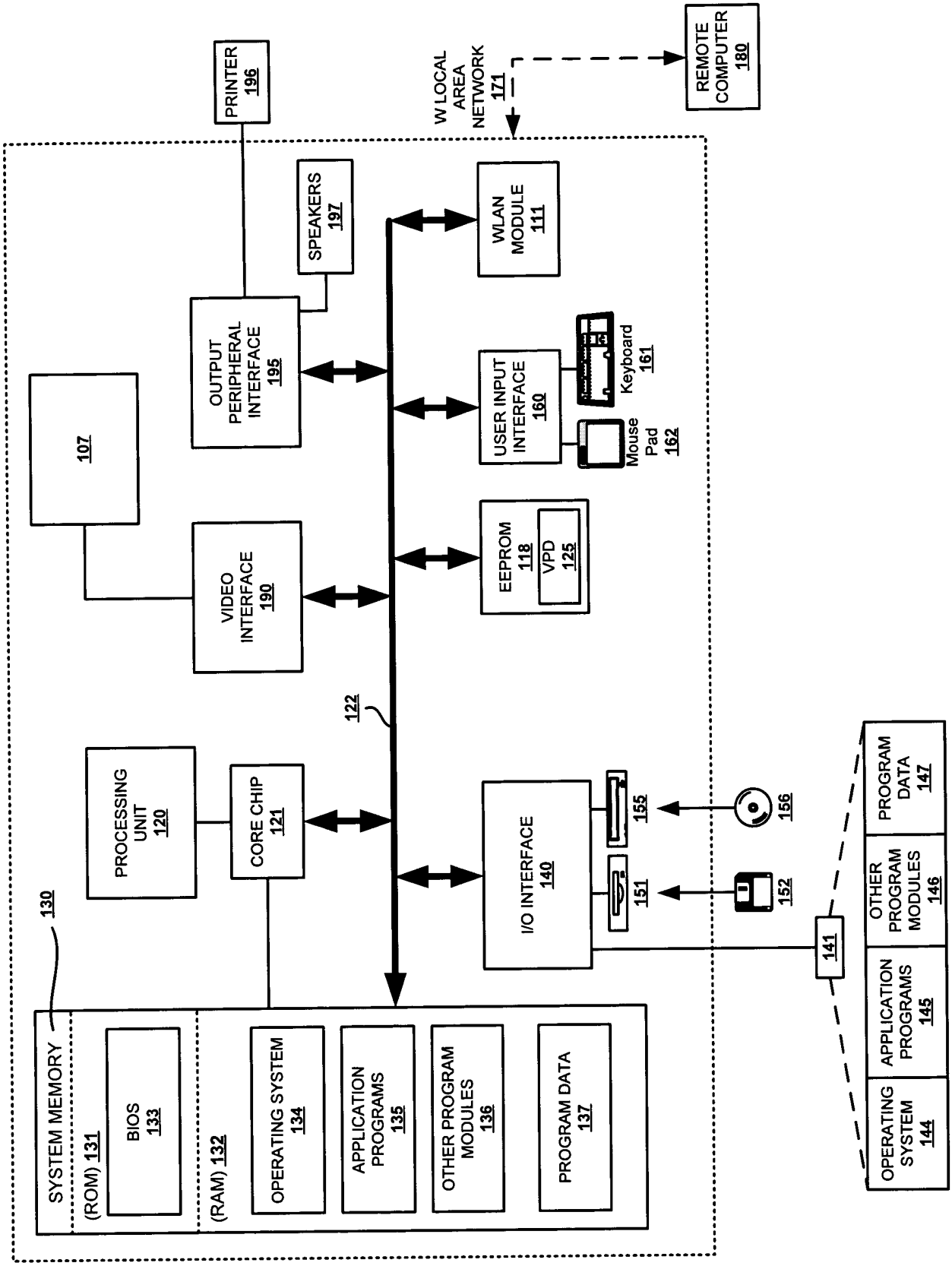
PRINTER 196
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FIGURE 1B

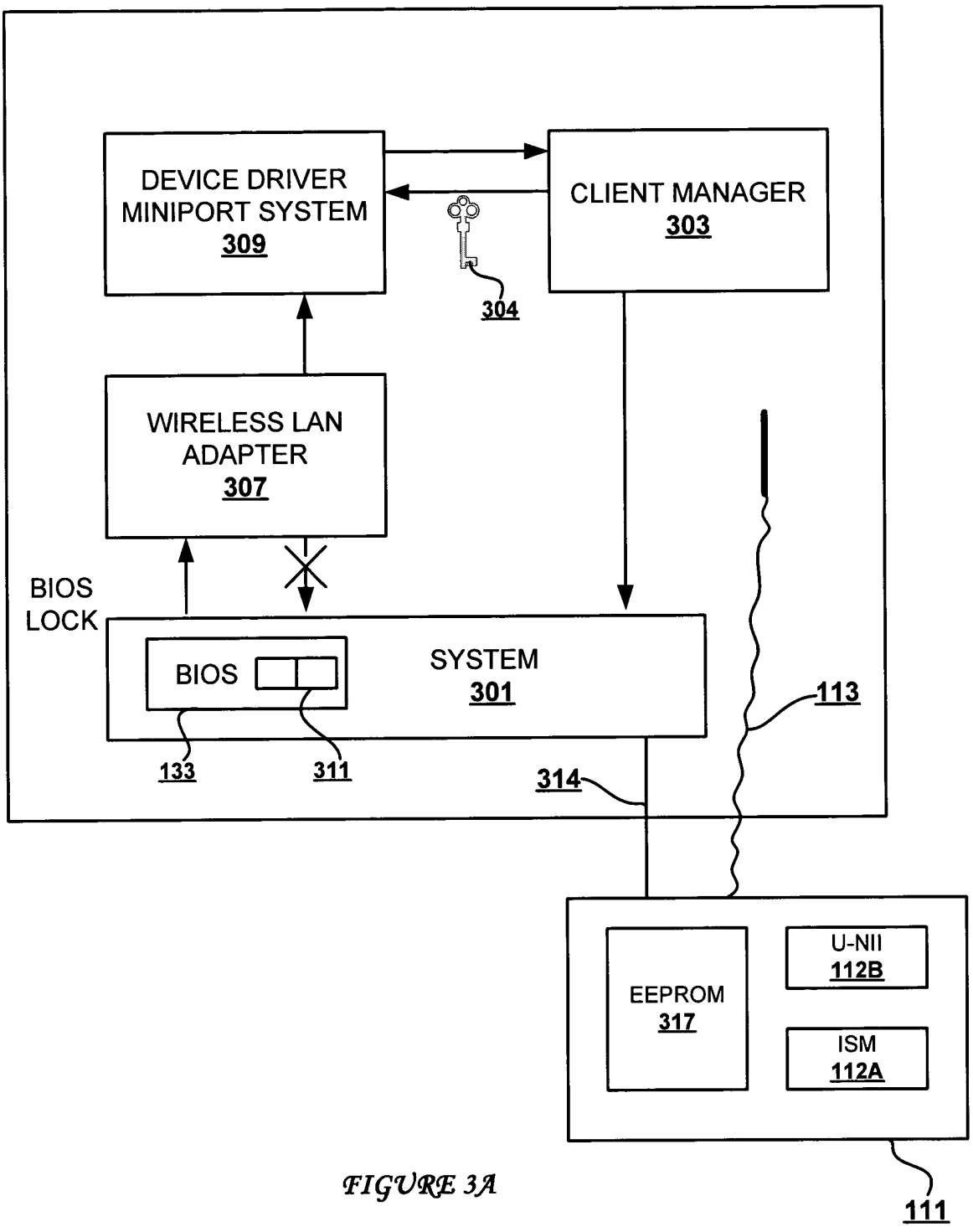

DEVICE DRIVER
MINIPORT SYSTEM
309
CLIENT MANAGER
303
304
WIRELESS LAN
ADAPTER
307
BIOS
LOCK
BIOS
SYSTEM
301
113
133
311
314
EEPROM
317
U-NII
112B
ISM
112A
111

FIGURE 3A

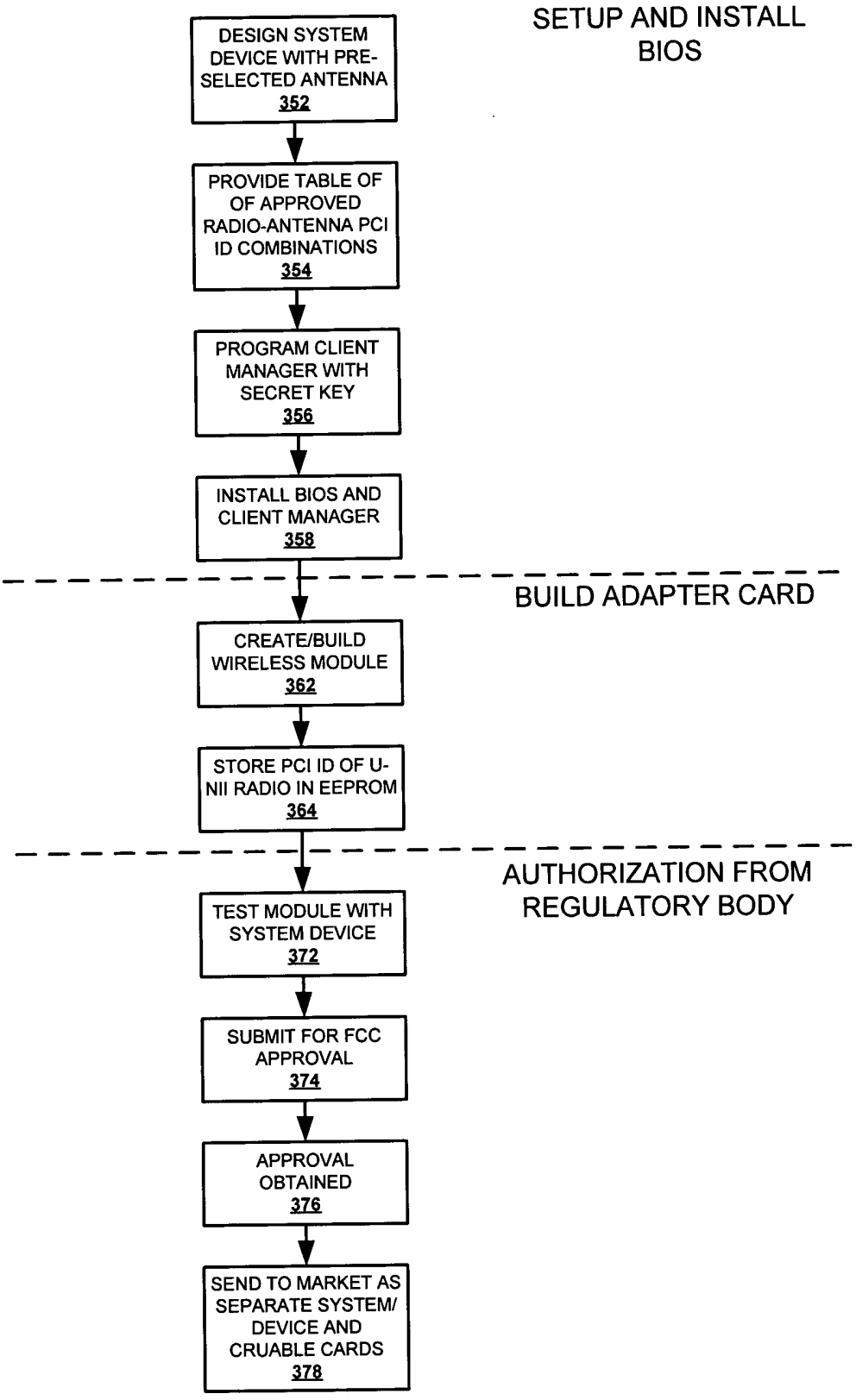

SETUP AND INSTALL BIOS
DESIGN SYSTEM DEVICE WITH PRE-SELECTED ANTENNA 352
PROVIDE TABLE OF OF APPROVED RADIO-ANTENNA PCI ID COMBINATIONS 354
PROGRAM CLIENT MANAGER WITH SECRET KEY 356
INSTALL BIOS AND CLIENT MANAGER 358
BUILD ADAPTER CARD
CREATE/BUILD WIRELESS MODULE 362
STORE PCI ID OF U-NII RADIO IN EEPROM 364
AUTHORIZATION FROM REGULATORY BODY
TEST MODULE WITH SYSTEM DEVICE 372
SUBMIT FOR FCC APPROVAL 374
APPROVAL OBTAINED 376
SEND TO MARKET AS SEPARATE SYSTEM/ DEVICE AND CRUABLE CARDS 378

FIGURE 3B

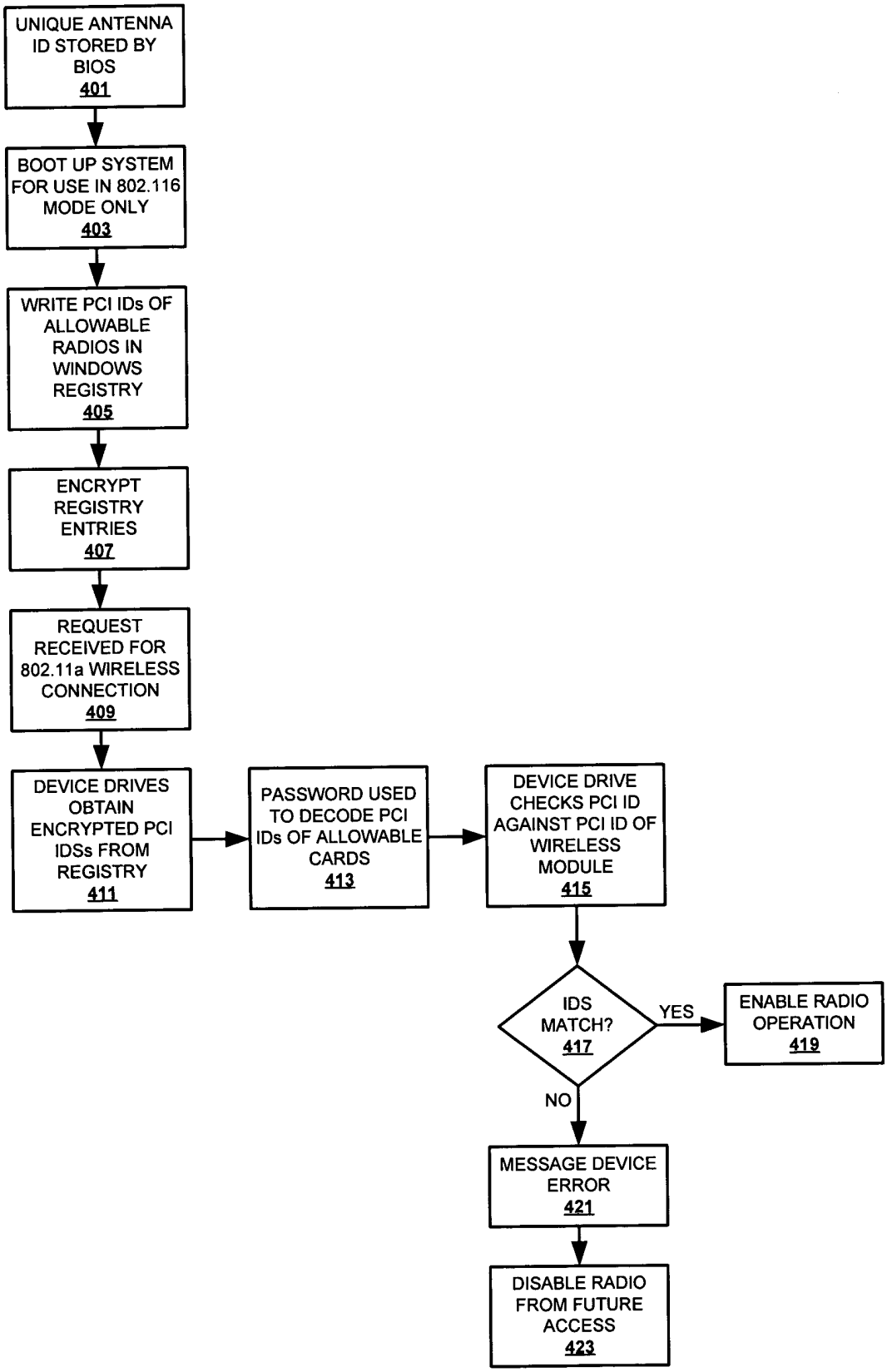
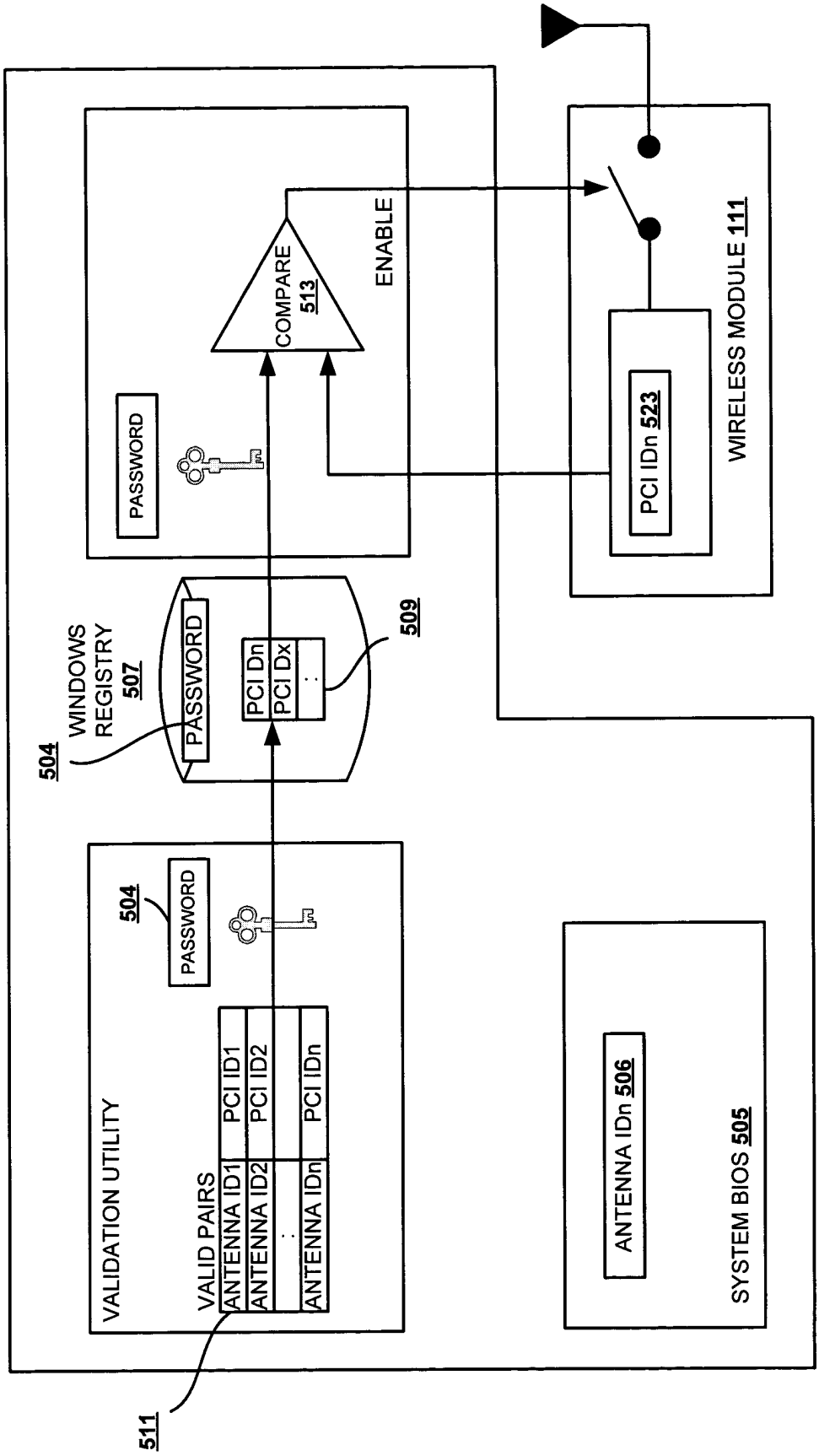

UNIQUE ANTENNA ID STORED BY BIOS
401
BOOT UP SYSTEM FOR USE IN 802.116 MODE ONLY
403
WRITE PCI IDs OF ALLOWABLE RADIOS IN WINDOWS REGISTRY
405
ENCRYPT REGISTRY ENTRIES
407
REQUEST RECEIVED FOR 802.11a WIRELESS CONNECTION
409
DEVICE DRIVES OBTAIN ENCRYPTED PCI IDSs FROM REGISTRY
411
PASSWORD USED TO DECODE PCI IDs OF ALLOWABLE CARDS
413
DEVICE DRIVE CHECKS PCI ID AGAINST PCI ID OF WIRELESS MODULE
415
IDS MATCH?
417
YES
ENABLE RADIO OPERATION
419
NO
MESSAGE DEVICE ERROR
421
DISABLE RADIO FROM FUTURE ACCESS
423

FIGURE 4


WIRELESS MODULE 111
PCI IDn 523
ENABLE
COMPARE 513
PASSWORD
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504
PASSWORD
PCI Dn
PCI Dx
509
VALIDATION UTILITY
504
PASSWORD
VALID PAIRS
ANTENNA ID1
ANTENNA ID2
ANTENNA IDn
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PCI ID2
PCI IDn
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ANTENNA IDn 506

FIGURE 5

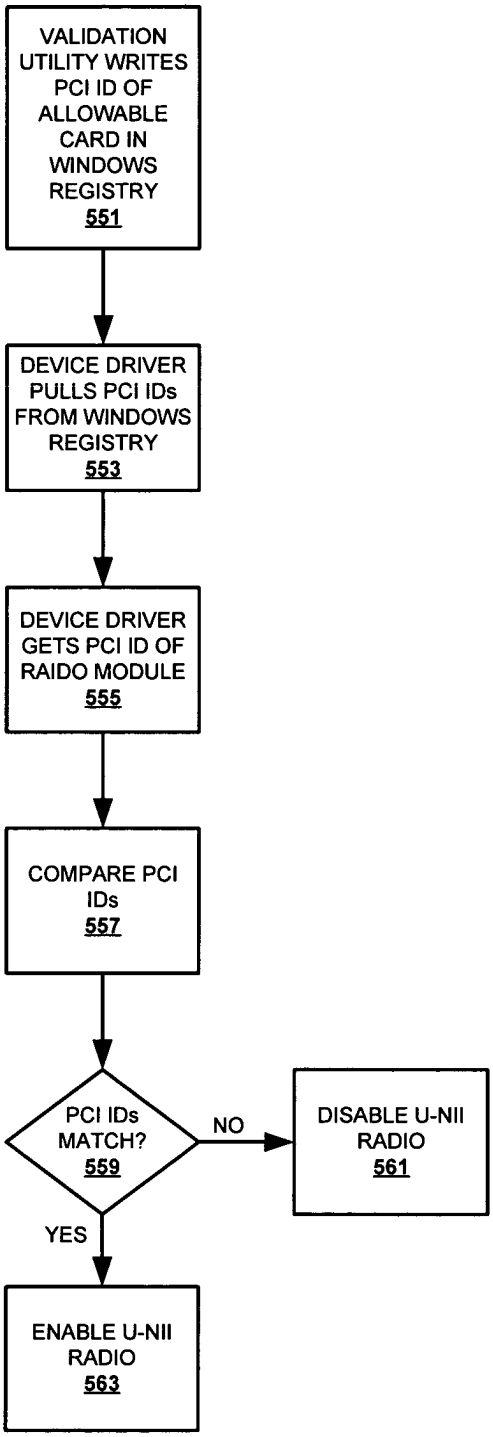
VALIDATION UTILITY WRITES PCI ID OF ALLOWABLE CARD IN WINDOWS REGISTRY
551
DEVICE DRIVER PULLS PCI IDs FROM WINDOWS REGISTRY
553
DEVICE DRIVER GETS PCI ID OF RAIDO MODULE
555
COMPARE PCI IDs
557
PCI IDs MATCH?
559
NO
DISABLE U-NII RADIO
561
YES
ENABLE U-NII RADIO
563

FIGURE 5B